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## NOTICE OF ALLOWANCE AND FEE(S) DUE

28289 7590 09/08/2008
THE WEBB LAW FIRM, P.C.
700 KOPPERS BUILDING
436 SEVENTH AVENUE

PITTSBURGH, PA 15219

| EXAMINER | MANDALA, VICTOR A | ART UNIT | PAPER NUMBER | 2826 | DATE MAILED 09/08/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/591,413	06/07/2007	Werner Baumann	4587-062099	3405		
TITLE OF INVENTION: FIELD EFFECT TRANSISTOR FOR MEASURING BIOCOMPONENTS						

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/08/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	or transmitting the 188 ig the Patent, advance of herwise in Block 1, by (	orders and notification of a (a) specifying a new corres	naintenance fees wi spondence address;	ill be mail and/or (b)	led to the current indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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PITTSBURGH,	PA 15219						(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNE	Y DOCKET NO.	CONFIRMATION NO.
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			RING BIOCOMPONENTS				
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/08/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MANDALA	, VICTOR A	2826	257-414000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  Fee Address' indication (or "Fee Address" Indication form PTO/SB/147 to 0.302 or more recent) attached. Use of a Customer Address of the Control of the Co			registered attorney of agent) and the names of up to 2 registered patent attorney or agent. If no name is 3 listed, no name will be printed.				
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIGNATION O	GNEE		e data will appear on the p DT a substitute for filing an (B) RESIDENCE: (CITY printed on the patent):	and STATE OR CO	OUNTRY	)	up entity Government
4a. The following fee(s)  Issue Fee Publication Fee (N	vo small entity discount p	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attached	d.		
- 11	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademar	ed from anyone other than t k Office.	he applicant; a regis	tered attor	rney or agent; or th	e assignee or other party in
Authorized Signature			Date				
Typed or printed name							
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	ion is required to obtain or a 1.14. This collection is est y depending upon the indivi- he Chief Information Office COMPLETED FORMS To	retain a benefit by th timated to take 12 m ridual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public w inutes to o nments on frademark SEND TO	which is to file (and complete, including the amount of tin Office, U.S. Depa O: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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436 SEVENTH AVENUE PITTSBURGH, PA 15219			2826 DATE MAIL ED: 09/08/200	8	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)
10/591,413	BAUMANN ET AL.
Examiner	Art Unit
VICTOR A. MANDALA	2826
ter 35 U.S.C. § 119(a)-(d) or (f).  seen received.  seen received in Application No  uments have been received in this I  f this communication to file a reply  NT of this application.	national stage application from the
ted. Note the attached EXAMINER reason(s) why the oath or declara be submitted.  n's Patent Drawing Review ( PTO-Amendment / Comment or in the C 4(c)) should be written on the drawins header according to 37 CFR 1.121(i or BIOLOGICAL MATERIA) OR THE DEPOSIT OF BIOLOGIC.	guitantion is deficient.  948) attached  Office action of angs in the front (not the back) of d),  nust be submitted. Note the
5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other 8/31/08	(PTO-413), te
	To or the cover sheet with the communication to file a reply into the submitted.  If this communication to file a reply into the application is subject to the submitted in the submitted into the submitt

Application/Control Number: 10/591,413 Page 2

Art Unit: 2826

## DETAILED ACTION

## Allowable Subject Matter

- The following is an examiner's statement of reasons for allowance:
- 2. The prior art teaches a field effect transistor where there is a source, channel, drain, gate insulator, and a gate, wherein the gate detects biological elements. The prior art also teaches of a field effect transistor as stated above, but where there is a back gate and the detecting region is made on the channel. The prior art also teaches where the gate of the fet has multiple probes that are electrically connected to the gate and extend there from in a vertical direction away from the channel.
- 3. The prior art is silent with respect to a field effect transistor where there is a source, channel, drain, gate insulator, and a gate, wherein the gate detects biological elements in combination with the gate being formed into multiple gates that are insulated from each other and formed on the same channel in a lateral direction perpendicular to the channel between the source and drain in the same fet. This combination has been found to be non-obvious thus allowed.
- Claims 12-22 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent Application Publication Nos. 2007/0072336 and 2007/0063304 Art Unit: 2826

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VICTOR A. MANDALA whose telephone number is (571)272-1918. The examiner can normally be reached on Monday through Thursday from 8am till 6pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VICTOR A MANDALA JR/ Examiner, Art Unit 2826 8/31/08